

Claims

1. A method of establishing rules (14) for a device which is intended to be able to be used for generating decision support for decisions which determine the behaviour of an entity (44) and/or for controlling the behaviour of an entity (44), which device comprises:
 - a supervising unit (10) arranged to handle a rule system for the behaviour, wherein the supervising unit (10) comprises at least one storage member (12) in which a rule structure comprising a set of completely or partly ready-formulated rules (14) for the behaviour is stored,
 - a user interface (16) comprising first means (18) for presenting information to a user of the device and second means (20) for inputting instructions to said supervising unit (10),
 - wherein the device is arranged such that said rule structure is such that a rule (14) comprises one or more premises (22) and one or more conclusions (24),
 - wherein the device is arranged such that the rule system is divided into a plurality of states (30) for different parts of said behaviour, wherein each state (30) comprises one or more of said rules (14),
 - wherein the device is arranged to via said first means (18) present a decision support window which comprises at least one area (56) which represents one of said states (30), wherein this area (56) comprises names which identify different rules (14) which form part of the state (30),
 - wherein said method comprises the following steps:
 - that said device is run in a real or simulated version of said entity (44) in such a manner that the entity (44) goes through a behaviour or a behaviour scenario,
 - that said decision support window is presented to a user,
 - that the user makes decisions by via said second means (20) inputting instructions which mean that one or more conclusions (24) which form part of a certain rule (14), the name of which is currently shown in said area (56) in the decision support window, shall be executed,

that the decisions which have been made by the user are analysed, and

that the rules (14) for which the user have made decisions concerning that one or more conclusions (24) shall be executed out
5 are determined or modified in accordance with the analysis that has been carried out.

2. A method according to claim 1, wherein the device is arranged such that said premises (22) shall be able to either be true or false
10 and wherein said conclusions (24) are predetermined and pre-programmed,

wherein the device is arranged such that said rule structure is such that each premise (22) in the rule (14) can be assigned an indicator (32) which can indicate at least two different conditions, namely a
15 first condition which means that the premise (22) shall be true and a second condition which means that the premise (22) shall be false, wherein at least one conclusion (24) is intended to be executed if all of said premises (22) fulfil the conditions set by the assigned indicators (32), and

20 wherein said method is such that said rules (14) which are determined or modified in accordance with the analysis which has been carried out are determined or modified in that the premises (22) for these rules (14) are determined or modified in accordance with the analysis which has been carried out.

25 3. A method according to claim 2, wherein said device is arranged such that said rule structure is such that each premise (22) in the rule (14) also can be assigned an indicator (32) which can indicate a third condition which means that it does not matter
30 whether the premise (22) is true or false in order for said one or more conclusions (24) to be intended to be executed.

4. A method according to claim 2 or 3, wherein said device is arranged such that said rules (14) are only partly ready-formulated
35 such that at least a plurality of premises (22), which can be true or false, are defined for a plurality of said rules (14), but without these premises (22) yet have been assigned any of said indicators (32)

which indicate some of said conditions, wherein when said device is run, it is registered whether said plurality of premises (22) are true or false at the occasions when the user makes said decisions which mean that one or more conclusions (24) which form part of a certain rule (14) shall be executed.

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10 5. A method according to claim 4, wherein after that said registration has been done at one or more runs, the obtained registrations are statistically processed, whereafter ready-formulated rules (14) are established.

15 6. A method according to any of the claims 1-3, wherein said device is arranged such that said rules (14) comprise a plurality of premises (22) which comprise at least one parameter (25) which, when a value for this parameter (25) has been determined, causes the premise (22) to have a truth value such that the premise is true or false, wherein said rules (14) are only partly ready-formulated such that at least a plurality of premises (22) are defined without that a value of said parameter (25) has been determined, wherein
20 when said device is run, the value of said parameters (25) are registered at the occasions when the user makes said decisions which mean that one or more conclusions (24) which form part of a certain rule (14) shall be executed.

25 7. A method according to claim 6, wherein after that said registrations have been done at one or more runs, the obtained registrations are statistically processed, whereafter suitable values for the parameters (25) in the rules (14) are established.

30 8. A method according to claim 2 or 3, wherein said device is arranged such that at least a plurality of said rules (14) are ready-formulated in such a manner that at least a plurality of premises (22) are defined for the rules (14) such that the premises (22) have a truth value such that the premises (22) are true or false and such
35 that these premises (22) have been assigned said indicators (32), wherein the device is arranged such that the user can make decisions which mean that one or more conclusions (24) which form

part of a certain rule (14) shall be executed even if the ready-formulated rule (14) in question does not say that the conclusion or conclusions (24) shall be executed, wherein when said device is run, the user makes said decisions which mean that one or more conclusions (24) which form part of a certain rule (14) shall be executed, wherein registration takes place, at the occasions when the user makes said decisions, of whether the premises (22) were true or false.

9. A method according to claim 8, wherein a comparison is done between said registrations at the run and said ready-formulated rules (14).

10. A method according to claim 9, wherein said ready-formulated rules (14) are reformulated on the basis of said comparison.

11. A method according to claim 2 in combination with 0, 1, or more of the claims 3-10, wherein said device is arranged such that the rule structure is such that each conclusion (24) in a rule (14) is assigned an indicator (32) which can indicate two different cases, a first case which indicates that the conclusion (24) shall be executed or a second case which indicates that the conclusion (24) shall not be executed, wherein a conclusion (24) is meant to be executed if all of said premises (22) in the rule fulfil the conditions set by the assigned indicators (32) and the indicator of the conclusion (24) indicates (32) said first case.

12. A method according to any of the preceding claims, wherein said device is arranged such that the rule system is divided into a plurality of rule blocks (31), each of which comprises one or more rules (14), wherein each state (30) comprises one or more rule blocks (31), wherein the rules (14) within a certain rule block (31) concern a certain aspect of the behaviour within the state (30) in question and wherein the device is arranged such that said area (56) in the decision support window also comprises the name of one or more rule blocks (31) which form part of the state (30).

13. A method according to any of the preceding claims, wherein said device is arranged such that said name of a rule (14) which is shown in said area (56) in the decision support window is shown within a marked area, wherein the device is arranged such that the user inputs said instructions, which mean that one or more conclusions (24) which form part of a certain rule (14) shall be executed, by inputting a command when a marker is at or on said marked area.